

Fig. 1

10054541-11301

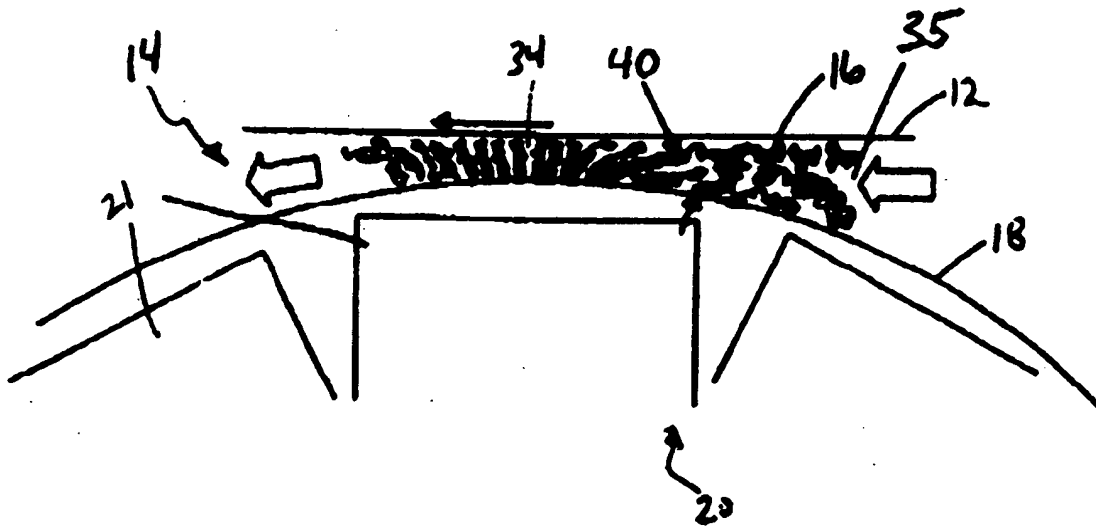
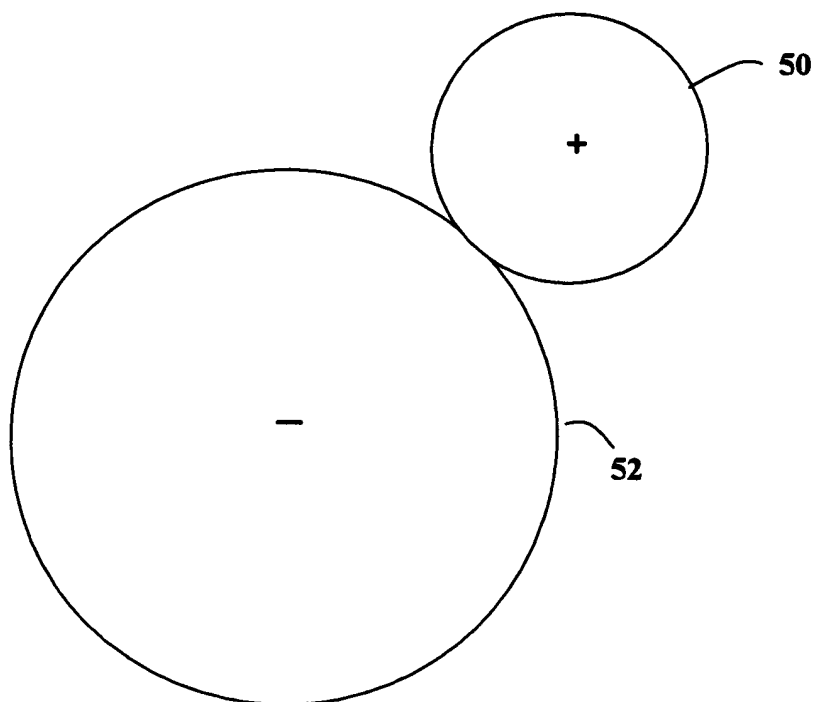


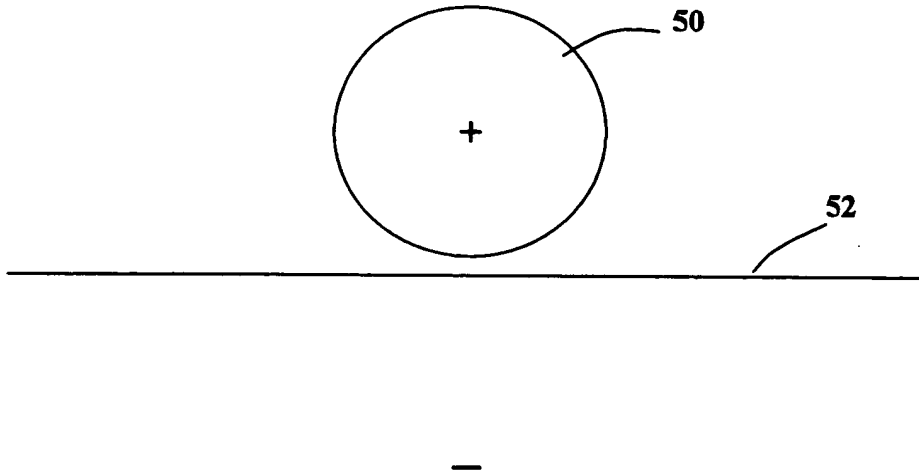
Fig. 2

Fig. 3



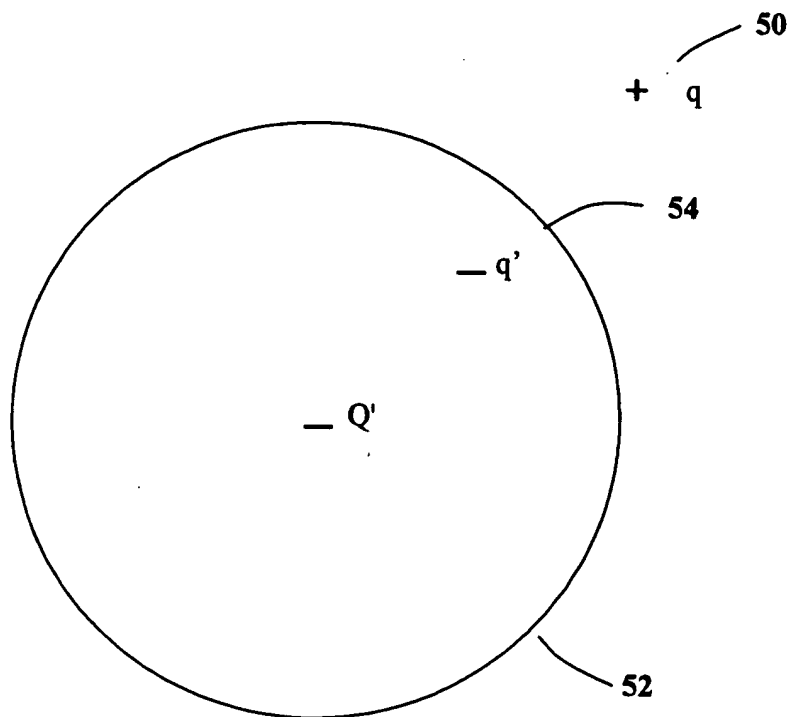
10054514-11304
FOE T + T E O T

Fig. 4



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FIG. 4

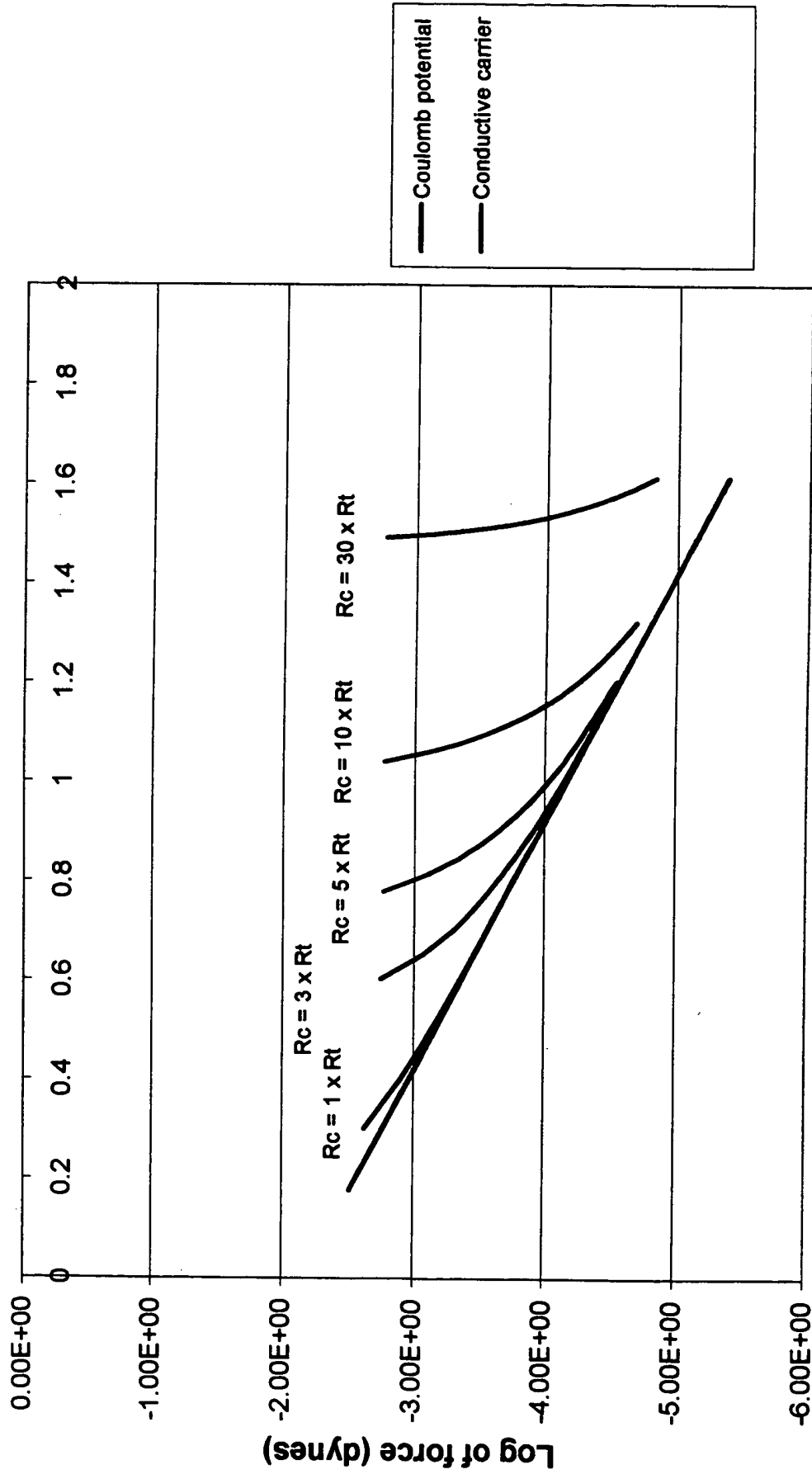
Fig. 5



1005454-1150

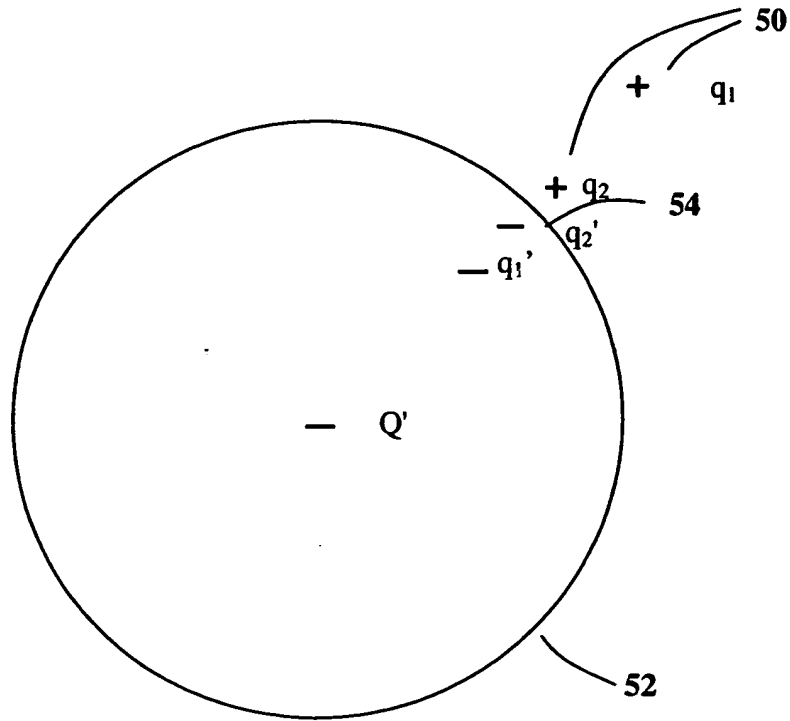
- Point toner and conductive sphere
- ▲ Point particles
- Point toner and dielectric sphere 3
- ✕ Point toner and dielectric sphere 6
- ✱ Point toner and dielectric sphere 10
- Point toner and dielectric sphere 100
- + Point toner and dielectric sphere 298
- ◆ Point toner and dielectric sphere 5000

Fig. 7 Force as a function of carrier size



Log of separation of centers in units of toner radius

Fig. 8



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Fig. 9 Force on toner particle: 0.1 q concentrated on surface

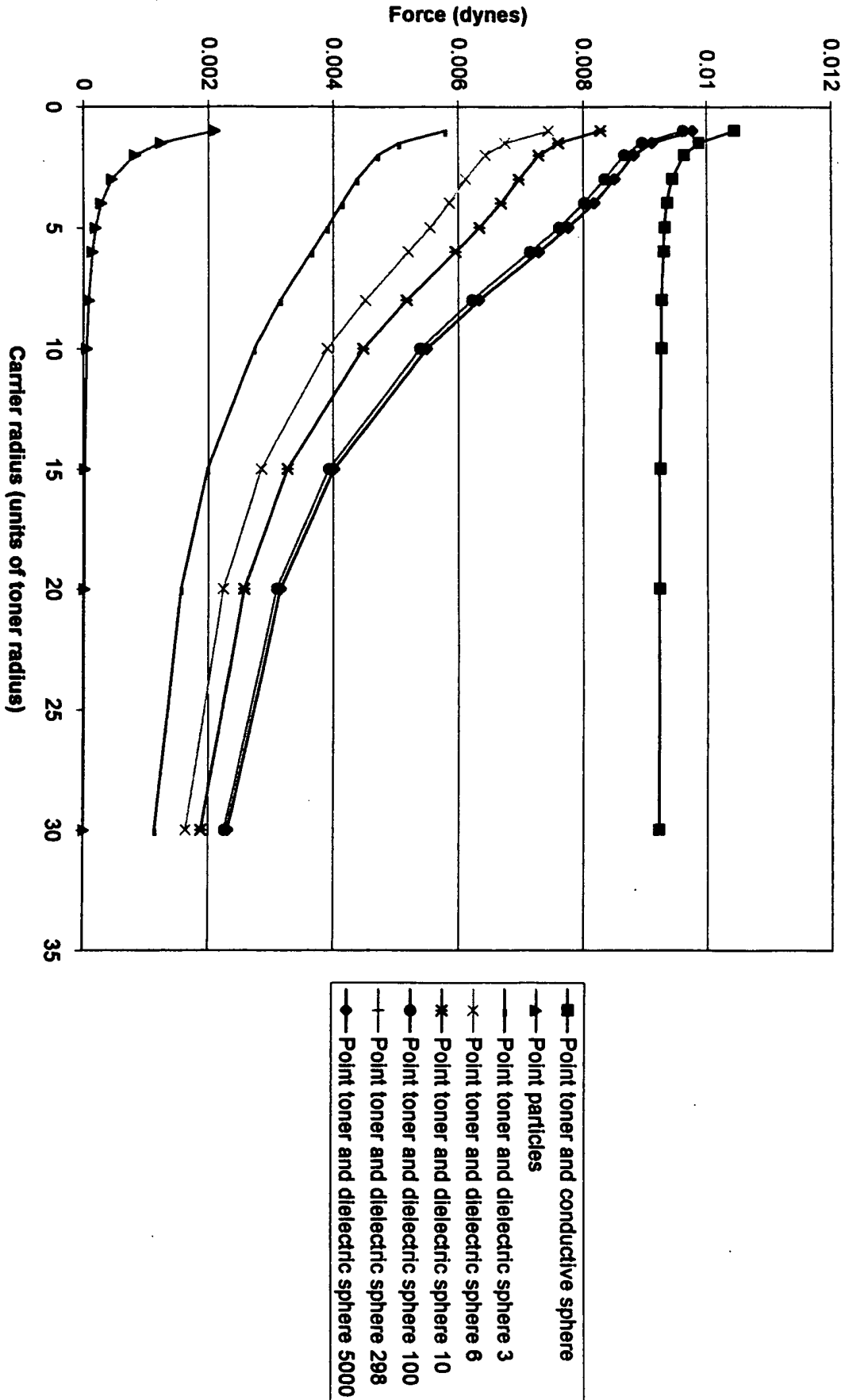
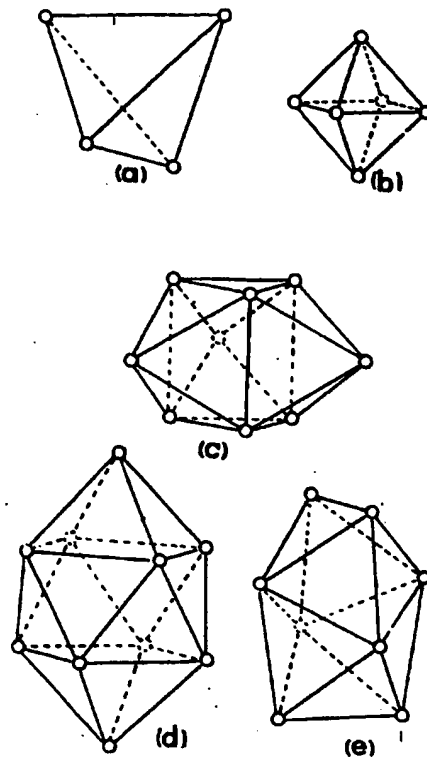


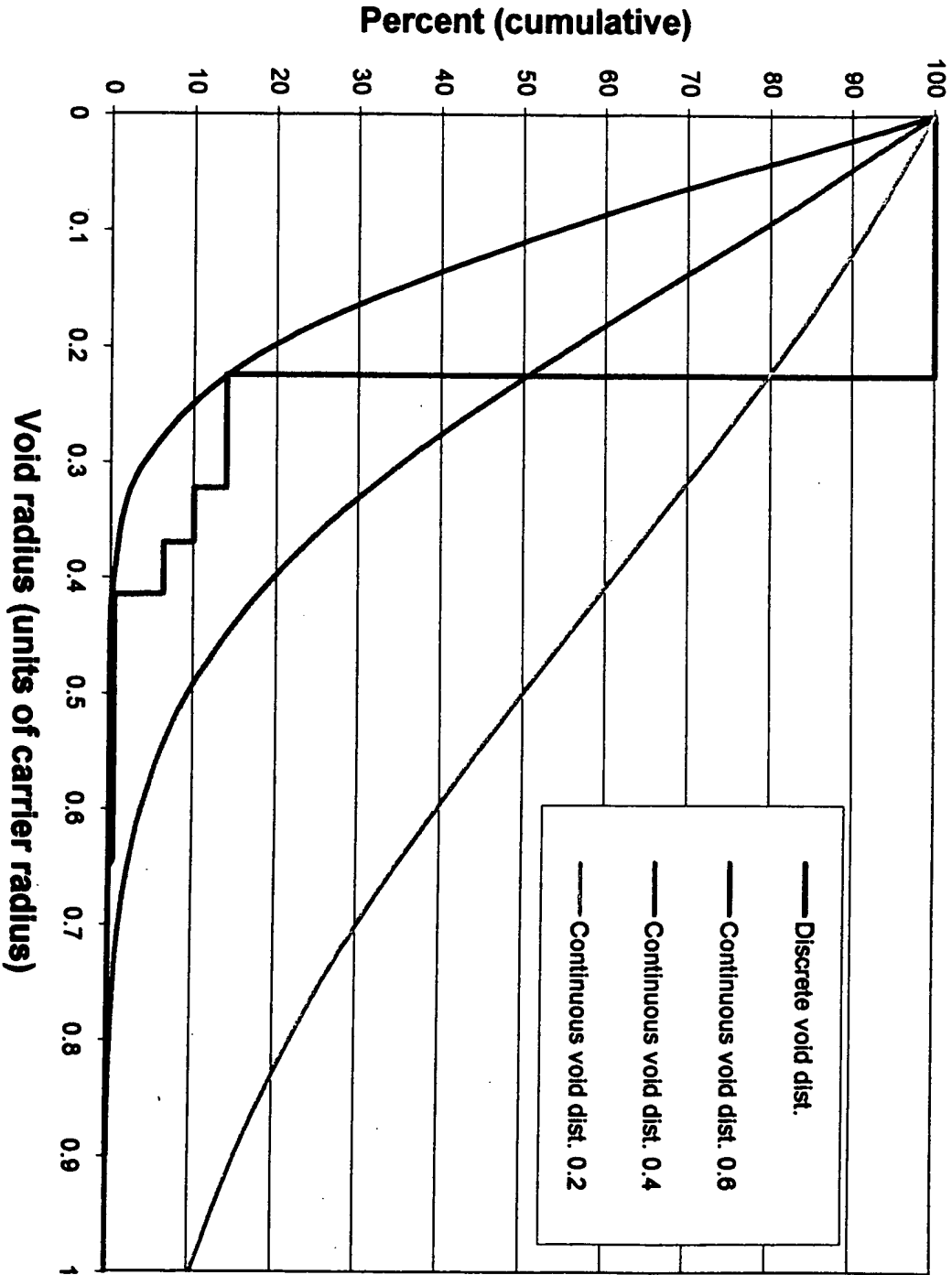
Fig. 10



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FIGURE 11

**Fig. 11 Void sizes in drphs model
Monodisperse particles with packing fraction 0.6 to 0.2**



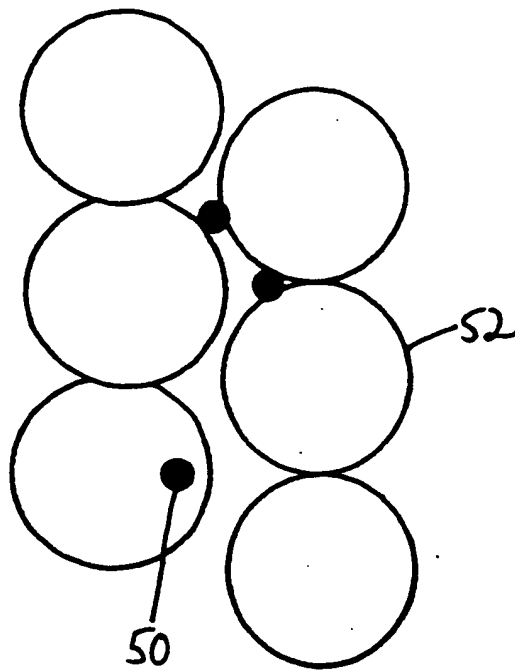
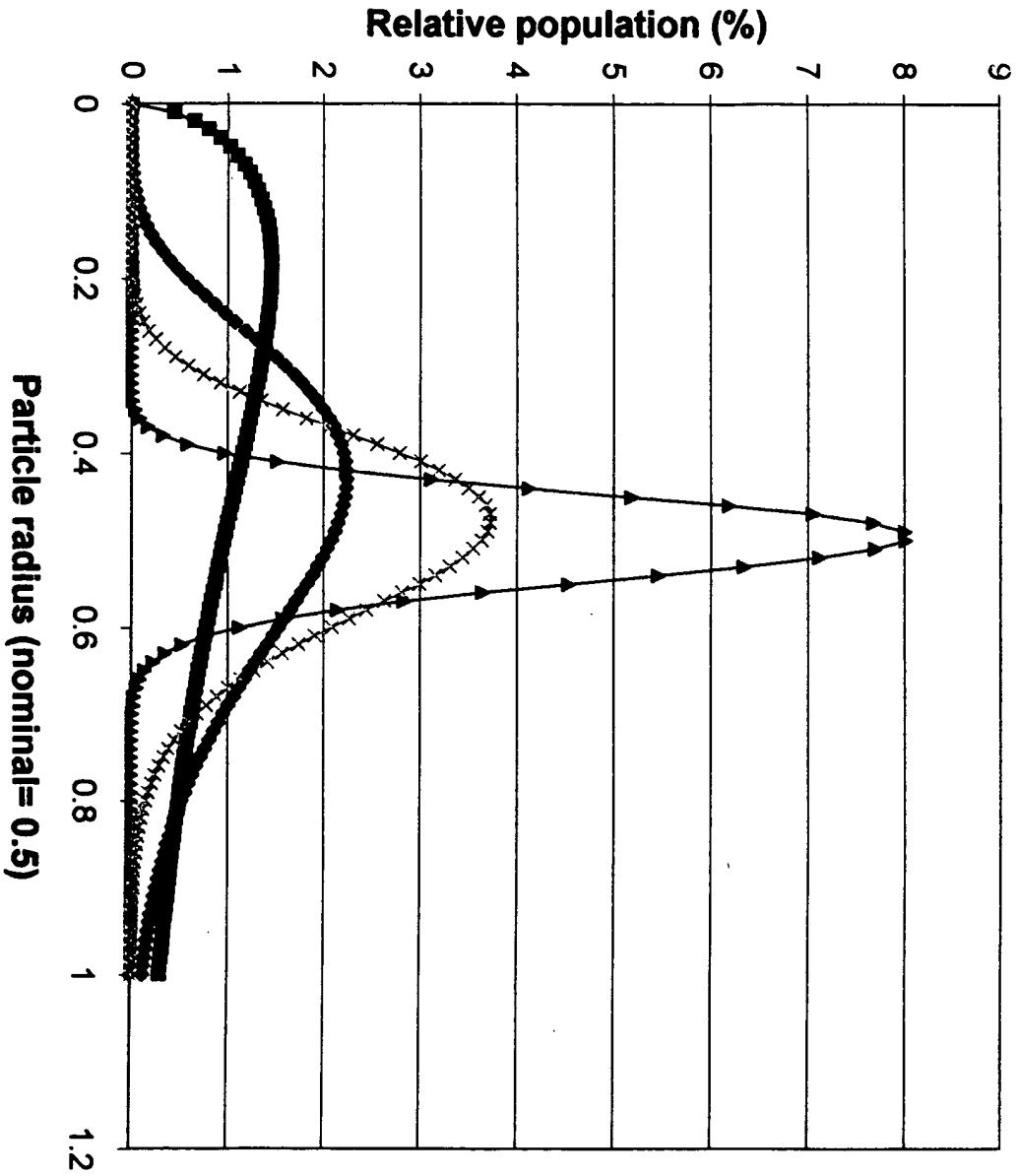


Figure 12

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FIG. 13

Fig. 13 Schulz distribution



- ◆— $Z = 6$ (typical carrier)
- $Z = 0.6$ (broad size distribution)
- ▲— $Z = 100$ (narrow size distribution)
- *— $Z = 20$ (typical toner)

FIG. 14

Fig. 14 Void sizes in drphs model

